III. Installation Instructions

❶ Decide the location to install the metal case camera. The horizontal view angle of the metal case camera with 3.6 mm lens is 92-degree.

❷ In application, the metal case camera can be installed as the following four positions :
1) Ceiling mount
2) Floor mount
3) Wall mount, aim to right
4) Wall mount, aim to left

❸ In order to get the correct picture, please always keep the cable connector on the bottom side.

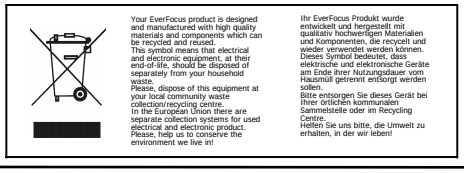
1) *Ceiling Mount :*
The metal case camera are set in the actual position when the shipment is made. They are ready to be installed.

2) *Floor Mount :*
Rotate the metal case in 180-degree so that the connector is on the bottom side.

3) *Wall Mount, aim to right :*
Remove the metal case from the supporting bracket by using screw driver to loosen the two screws, which connect the case to the bracket. Turn the metal case in 90-degree and mount into the supporting bracket again by changing the screw holes in order to keep the screw indicator on the bottom side.

IV. Specifications

	EM100	EM200
Pickup Device	1/3" SONY B/W CCD	1/3" SONY Super HAD CCD
Video Format	NTSC or PAL	NTSC or PAL
Picture Elements	510 x 492 (EIA) 500 x 582 (CCIR)	510 x 492 (NTSC) 500 x 580 (PAL)
Horizontal Resolution	420 TV lines	380 TV lines (NTSC)
Sensitivity	0.04 Lux/F=1.2	0.3 Lux/F=1.2
S/N Ratio	Over 48 dB (AGC off)	
Electronic Shutter	1/50(1/60)~1/100,000	
Automatic Gain Control	Yes	
Gamma Correction	0.45	
Video Output	BNC 1.0Vp-p, 75 ohm	
Sync. Mode	Internal Sync.	
Lens Mount	M12 x P0.5	
Power Source	12VDC	
Power Consumption	3W max.	
Dimensions	36mm(W) x 36mm(D) x 31mm(H) ; 1.42"(W) x 1.42"(D) x 1.22"(H)	
Weight	0.09kg ; 0.20lbs	
Operating Temperature	0°C to +50°C ; 32°F~122°F(20%~80% Humidity)	
Certifications	FCC/CE	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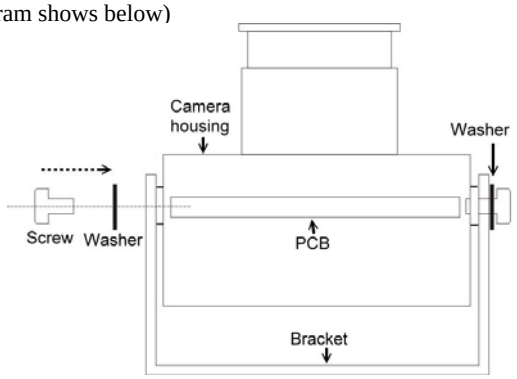
Bitte entsorgen Sie dieses Gerät bei Ihrer örtlichen kommunalen Sammelstelle oder im Recycling Centre.
Helfen Sie uns bitte, die Umwelt zu erhalten, in der wir leben!

4) *Wall Mount, aim to left:*
Remove the metal case from the supporting bracket by using screw driver to loosen the two screws, which connect the iron case to the supporting bracket. Turn the metal case in 90-degree and mount into the supporting bracket again by changing the screw holes in order to keep the screw indicator on the bottom side.

Note: Before installing, please make sure the washer is at its original position, or PCB may be damaged. (Please refer to the diagram shows below)



❹ Connect the video output of the camera (yellow line) to a monitor, or other video device through a 75 ohm type coaxial cable with BNC female connector at cable extension.

❺ Connect the +12VDC regulated power source of the camera (red line) to the 12VDC Power-in jack with 2 mm, center+, outer- plug.

❻ Connect the ground of the camera (black line) to the ground.

❼ Connect the audio output line of the camera (white line) to the audio connector of the monitor.

EM100/200 CCD Camera

INSTRUCTION MANUAL

1/3" Metal Case Cameras

I. General

EM100/200 is a compact, full functioned CCD Camera. Its stylish appearance can be applied as per installer's ideal locations. The metal case of camera can be mounted either on the ceiling or on the wall easily. EM100/200 uses high sensitive 1/3" interline transfer CCD sensor. EM100/200 is featured with Auto Electronic Shutter and Automatic Gain Control.

II. Precautions

- Do not expose the camera to humidity and dust. Outdoor application without shielding is not recommended.
- Handle with care. This camera consists of high sensitive parts. Do not disassemble it or place it on an unstable base.
- Do not touch the surface of CCD sensor by hand directly. When the camera is not in use, put the cover cap on the lens.
- Operate on +12VDC (Use a regulated power source only).
- Never face the camera toward the sun.